MANDATORY LOCKING MECHANISMS FOR UNIX FILE SYSTEMS

ABSTRACT OF THE DISCLOSURE

Techniques for implementing mandatory locks for UNIX file systems are
5 disclosed. The mandatory locks can provide similar features as the locking features
provided in Windows computing environments. Mandatory locks can be defined and
enforced in a secure UNIX computing environment. As a result, Windows clients (or
users) can safely access files stored in the secure UNIX computing environment.
Mandatory lock categories including Byte-Range locks and Shared Resource locks
10 and can provide similar features as provided by the mandatory locking mechanisms
of Windows environments. In addition, various attributes can be defined and
associated with each mandatory lock category. Accordingly, access to files stored in
UNIX file systems can be controlled based on the lock category and the attributes
assigned to it.

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